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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,252	10/02/2006	Nigel Hacker	30-4333-4780/H9930-4505	2613
62993 7590 12/05/2008 BUCHALTER NEMER 18400 VON KARMAN AVE.			EXAMINER	
			ZIMMER, MARC S	
SUITE 800 IRVINE, CA 9	02612		ART UNIT	PAPER NUMBER
11(11(11), 011)	.2012		1796	
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			12/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/520,252 HACKER ET AL. Office Action Summary Examiner Art Unit MADO C ZIMMED

Water C. Ziminer
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available; under the provisions of 37 CFR 1.30(a), in no event, however, may a reply be timely filled.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the mailing date of this communication.  - Failure to reply within the set or catendide period for reply with by statute on become ABANDONED (38 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned pattern term disjustment. See 37 CFR 1.70(b).
Status
1) Responsive to communication(s) filed on 03 January 2005. 2a] This action is FINAL. 2b] This action is non-final. 3] Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) Claim(s) 1-41 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-41 are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner.  10) The drawing(s) filed onis/are: a)accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12)
Attachment(s)
1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413)

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date. \_\_\_\_\_ 5) Notice of Informal Patent Application Paper No(s)/Mail Date \_\_\_\_\_ 6) Other: \_\_\_\_\_ U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

(i) a polymer component wherein the so-called structural precursor is a (a) siloxane compound, (b) polyarylene ether, or (c) cage molecule.

(ii) a polymer component wherein the so-called radical precursor is an (d) alkyl group, (e) cycloalkyl group, or (f) aromatic group

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

Claims 4-6 and 35-37 recite species (a). Claims 8 and 39 recite species (b). Claims 9, 10, 40, and 41 recite species (c). Claim 11 and 33-34 recite species (d). Claim 12 recites species (e). Application/Control Number: 10/520,252

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Claim 13 recites species (f).

The following claim(s) are generic: claims 1 and 28.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

As a measure to expedite prosecution, the Examiner strongly encourages

Applicant to re-write their claims to more precisely define their invention. Claim 1

discloses a "low dielectric material" comprising a "polymer" that, itself, is described in

terms of its structural fragments, or "precursors", that represent the different structural

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attributes of polymer. In the Examiner's estimation, however, the polymer/polymer composition does not possess dielectric properties but, rather, is the compound from which the dielectric material is derived. Certainly, they would not have dielectric properties like those stipulated in claims 20-23. That is to say, only after the polymer is subjected to some form of energy that results in the partial degradation of the polymer (and, hence, the loss of those parts of the molecule corresponding to the radical precursors) thereby yielding a nanoporous sample is a low dielectric material obtained. It is, therefore, the Examiner's position that claim 1 should perhaps be rewritten as a product process claim that defines the polymer material and its subsequent partial degradation to form pores. Applicant is advised that this does not simply entail combining the limitations of claims 1 and 2 because claim 2 does nothing more than define the role of the radical precursor. Claim 2 is not describing an actual process step.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARC S. ZIMMER whose telephone number is (571)272-1096. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

December 2, 2008

/Marc S. Zimmer/ Primary Examiner, Art Unit 1796